

**Notice of Allowability**

Application No.

10/068,464

Applicant(s)

KIDO, KUNIO

Examiner

Art Unit

Christopher R. Magee

2653

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/6/2002.
2. ☒ The allowed claim(s) is/are 1-22.
3. ☒ The drawings filed on 06 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## DETAILED ACTION

### *Priority*

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### *Reasons for Allowance*

2. Claims 1-22 are allowed.

This application is for a CAM STRUCTURE AND DISK EXCHANGE SYSTEM USING THE SAME.

The following is an examiner's statement of reasons for allowance:

- **Claim 1** specifies a cam structure, which requires:

*"a second cam that displaces the second follower section in an axial direction, the second cam having cam sections, each of the cam sections being divided in the radial direction in a number corresponding to the number of the supports pins, wherein the divided cam sections are arranged in a circumferential direction at locations that time displacements in the axial direction of the second follower section with displacements in the radial direction of the first follower section."*

Akama et al. (US 6,175,545 A1) disclose a cam structure in Figure 12 wherein the divided cam sections do not correspond to the number of support pins as claimed in the present invention.

Therefore, these features, in combination with other features of claim 1, is not anticipated by, nor made obvious over, the closest prior art of record of Akama et al. (US 6,175,545 A1).

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- **Claims 8 and 22** specify a cam structure in a disk exchange system, which requires:

*“a second cam that shifts in an axial direction a follower plate that rotates with the first cam and has three support sections, the second cam having first, second and third cam sections, wherein each of the first, second and third cam sections of the second cam is divided in the radial direction in a number equivalent to the number of the support pins into three segments, the first, second and third cam sections being disposed in a circumferential direction such that shifts of the follower plate in the axial direction are timed with shifts in the radial direction of the follower arm.”*

Akama et al. (US 6,175,545 A1) disclose a cam structure in Figure 12 wherein the divided cam sections do not correspond to the number of support pins as claimed in the present invention.

Therefore, these features, in combination with other features of claims 8 and 22, are not anticipated by, nor made obvious over, the closest prior art of record of Akama et al. (US 6,175,545 A1).

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

#### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Magee whose telephone number is (703) 605-4256. The examiner can normally be reached on M-F, 8: 00 am-5: 30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

December 13, 2004



Christopher R. Magee  
Patent Examiner  
Art Unit 2653

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